



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Patent

In re Application of:

Inventor(s): Sudeep BHOJA, John S. WANG and Christopher R. COLE

Assignee: Big Bear Networks, Inc.

Serial No.: 09/954,453

Examiner:

Filed: 09/12/01

Art Unit: 2182

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Technology Center 2100

Title: METHOD AND APPARATUS FOR ELIMINATING DEAD ZONE IN PHASE LOCKED LOOPS USING BINARY QUANTIZED PHASE DETECTORS

Patent No.:

Issued Date:

Assistant Commissioner for Patents
Washington, D.C. 20231POWER OF ATTORNEY BY ASSIGNEE OF ENTIRE INTEREST
(REVOCATION OF PRIOR POWERS)

As assignee of record of the entire interest of the above identified

☒ application,
☐ patent,

REVOCATION OF PRIOR POWERS OF ATTORNEY

all powers of attorney previously given are hereby revoked and

NEW POWER OF ATTORNEY

the following attorney(s) and/or agents(s) are hereby appointed to prosecute and transact all business in the Patent and Trademark Office connected herewith.

James P. Hao	Registration No.: 36,398
Anthony C. Murabito	Registration No.: 35,295
John P. Wagner	Registration No.: 35,398
Glenn D. Barnes	Registration No.: 42,293
Thomas M. Catale	Registration No.: 46,434
Jose S. Garcia	Registration No.: 43,628
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The assignee is establishing ownership herewith by specifying an executed assignment which was:

[X] Recorded in PTO on 09/12/01
Reel 012180
Frame 0933 (2 pages)

The undersigned avers that he is empowered to sign this submission on behalf of the assignee.

Date

8/7/02

Signature

John Paul Mattia

(type or print name of person authorized to sign on behalf of assignee)

Chief Technical Officer

Title



UNITED STATES
PATENT AND
TRADEMARK OFFICE



NOVEMBER 26, 2001

PTAS

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Under Secretary of Commerce For Intellectual Property and
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UNITED STATES PATENT AND TRADEMARK OFFICE
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

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PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 09/12/2001

REEL/FRAME: 012180/0933
NUMBER OF PAGES: 2

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:
BHOJA, SUDEEP

DOC DATE: 09/11/2001

ASSIGNOR:
WANG, JOHN S.

DOC DATE: 09/11/2001

ASSIGNOR:
COLE, CHRISTOPHER R.

DOC DATE: 09/12/2001

ASSIGNEE:
BIGBEAR NETWORKS, INC.
1591 MCCARTHY BLVD.
MILPITAS, CALIFORNIA 95035

SERIAL NUMBER: 09954453
PATENT NUMBER:

FILING DATE: 09/12/2001
ISSUE DATE:

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012180/0933 PAGE 2

SHARON LATIMER, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS



09-25-2001



Docket No.: BEAR-P013

RECORDATION

101854295

ASSIGNMENT

The Commissioner for Patents
Washington, D.C. 20231

Dear Sir:

Please record the attached original documents or copy thereof.

09/12/01

J1046 U.S. PTO
09/954453
09/12/01

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

1. Name of conveying party:

Inventor (s): Bhoja, Sudeep
Wang, John S.
Cole, Christopher R.

Execution Date:

9/11/2001

9/11/2001

9/12/2001

Serial No: (Not yet assigned)

Group Art Unit: (Not yet assigned)

Filed: 09/12/01

Examiner: (Not yet assigned)

2. Name and Address of

Receiving party: BigBear Networks, Inc.
1591 McCarthy Blvd.
Milpitas, CA 95035

3. Nature of Conveyance: Assignment

09/954453

4. Patent Application(s) / Patent Number(s): (not yet assigned)

New Patent Application Entitled:

**"Method And Apparatus For Eliminating Dead Zone In Phase Locked Loops Using
Binary Quantized Phase Detectors"**

5. Name and address of party to whom correspondences concerning document should be mailed:

Name: DENNIS S. FERNANDEZ, ESQ.

Address: FERNANDEZ & ASSOCIATES, LLP
PATENT ATTORNEYS
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PHONE: (650) 325-4999 FAX: (650) 325-1203
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6. Total Number of applications and patents involved: ONE

7. Fee Calculation

Assignment Recordation Fee \$40.00

Total Fees (37 CFR 3.41): \$40.00 X Enclosed Authorized to be charged to Deposit Account

8. Deposit Account Number:

In case Applicant inadvertently miscalculated any required fee, the Commissioner is hereby authorized to charge the necessary additional amount associated with this communication or credit any overpayment to Deposit Account No: 500482. A duplicate copy of this authorization is enclosed.

9. Statement and signature:

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

PETER C. SU, ESQ

Reg. No. 43,939

Date: 9/12/2001

Docket No. : BEAR-P013

ASSIGNMENT

Whereas, We, SUDEEP BHOJA, JOHN S. WANG, and CHRIS R. COLE having agreed to assign the below identified invention to BIGBEAR NETWORKS, INC. ("BIGBEAR NETWORKS"), a DELAWARE corporation having its principal place of business at 1591 McCARTHY BLVD., MILPITAS, CA 95035 for good and valuable consideration, receipt of which is hereby acknowledged, I do hereby sell, assign, and transfer unto BIGBEAR NETWORKS, its successors and assigns, the entire right, title, and interest, including the right of priority in, to and under an application for Letters Patents of the United States entitled:

Method And Apparatus For Eliminating Dead Zone In Phase Locked Loops Using Binary Quantized Phase Detectors

X filed herewith and the inventions set forth and described therein, and any and all Letters Patent of the United States and of countries foreign thereto which may be granted thereon or therefor; or

Serial No.: _____, filed on _____ and the inventions set forth and described therein, and any and all Letters Patent of the United States and of countries foreign thereto which may be granted thereon or therefor;

And for the above consideration, we agree promptly upon request of BIGBEAR NETWORKS, its successors or assigns, to execute and deliver without further compensation any power of attorney, assignment, application, whether original, continuation, divisional, or reissue, or other papers which may be necessary or desirable fully to secure to BIGBEAR NETWORKS, its successors and assigns, the inventions described in said application and all patent rights therein, in the United States and in any country foreign thereto, and to cooperate and assist in the prosecution of interference proceedings involving said inventions and in the adjudication or reexamination of said Letters Patent.

Inventor's Signature: Sudeep Bhoja Date: 09/11/01
SUDEEP BHOJA

Inventor's Signature: John S. Wang Date: Sep. 11, 2001
JOHN S. WANG

Inventor's Signature: Chris Cole Date: 9/12/01
CHRIS COLE

CHRISTOPHER R. COLE